MULTIPLES FACTORS PRIMES

Keywords:	Multiple, factor, prime, divisible					
Definition / Description:	another number's times table which e		A whole number exactly divides whole number	Prime: A whole number that only has 2 factors, itself and		
Knowledge points:	Multiples Times Tables	Lowest Common Multiple (LCM)		Factors Identify factors of a number	Find Highest Common factors of numbers	Prime numbers Use tests of divisibility to determine whether a number is prime
Knowledge point examples:	Multiples of 8 are 8, 16, 24, 32, 40, 48, 56, 64, Multiples of 10 are 10, 20, 30, 40, 50, 60, 70,	To find the 8 and 10 list multiples of 10 and choose the smalles number which both lists Multiples of 8, 16, 24, 348, 56, 64, Multiples of 10, 20, 30, 60, 70, LCM of 8 as is 40	st the of 8 and cose st nich is s of 8 are 32, 40, of 10 are 40, 50,	Factors of 12 are 1, 2, 3, 4, 6, 12 1 x 12 = 12 2 x 6 = 12 3 x 4 = 12 Factors of 30 are 1, 2, 3, 5, 6, 10, 15, 30 1 x 30 = 30 2 x 15 = 30 3 x 10 = 30 5 x 6 = 30	To find the HCF of 12 and 30, list all the factors of 12 and 30 and choose the highest number which is in both lists Factors of 12 are 1, 2, 3, 4, 6, 12 Factors of 30 are 1, 2, 3, 5, 6, 10, 15, 30 HCF of 12 and 30 is 6	7 1,1 1,14,2,7 Prime Prime numbers are the building blocks for all numbers because every number has at least one prime factor. Large prime numbers are very difficult to find, this makes them useful for encryption like in banking and online messaging. Prime numbers from 1 to 100 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89 & 97
Linked Knowledge	Indices					

Maps

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Keywords: Multiple, factor, prime, prime factor, factor tree, times table, divide, integer, product, divisibility, divisor

Multiple: a number that is in another number's exactly divides another whole number

Prime: A whole number that only has 2 factors, itself and 1.

Divisible: One number that can be divided exactly by another number

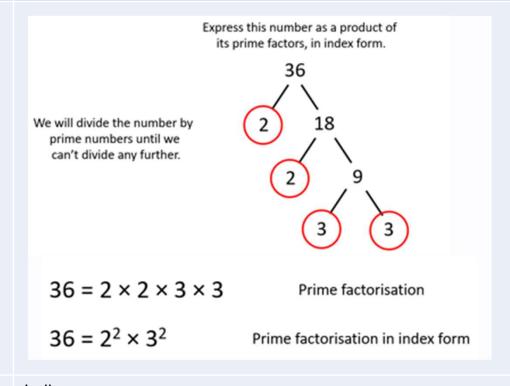
Knowledge points:

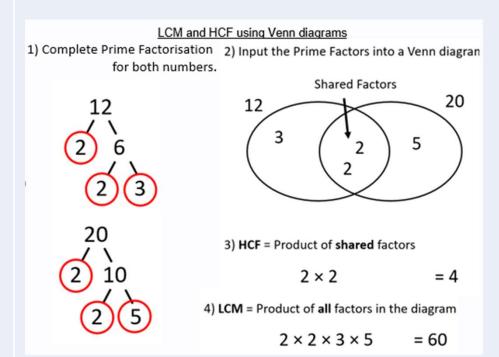
Definition /

Description:

Prime Factor decomposition using factor trees Every integer greater than 1 is prime or can be written as the product of prime numbers HCF and LCM using Venn Diagrams

Knowledge point examples:





Linked Knowledge Maps

Indices